

CLAIMS

The listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A liquid crystal information display comprising a front panel of functional layers facing an observer, a rear panel of functional layers opposite the front panel, and a layer of liquid crystal material twisted by 240 ° between the front and rear panels of functional layers, wherein the layer of liquid crystal material has parameters providing at least one interference maximum or minimum of transmission or reflection for at least one linearly polarized component of incident beam of light at at least one wavelength reflected or transmitted at the exit of the front panel, the parameters being achieved at least in the state of the liquid crystal material with applied electric field, said parameters comprise thickness, optical thickness, ordinary refractive index, extraordinary refractive index, and the ratio of ordinary refractive index to extraordinary refractive index, wherein the thickness is in a range of from 1 µm to 10 µm.

Claim 2 (original): A liquid crystal information display according to claim 1, wherein in the capacity of functional layers the display contains at least one layer of polarizer and/or at least one electrode layer and/or at least one alignment layer and/or at least one planarization layer and/or at least one retarder layer and/or at least one anti-reflective layer and/or at least one light-reflecting layer and/or at least one color filter layer and/or at least one protective layer and/or at least one layer simultaneously functioning as at least two of the above listed layers.

Claim 3 (previously presented): A liquid crystal information display according to claim 2, wherein at least one functional layer of the group comprising electrode layer, alignment layer, planarization layer, anti-reflective layer, light-reflecting layer, and color filter layer is anisotropic.

Claim 4 (previously presented): A liquid crystal information display according to claim 1 or 2, wherein the interference maximum or minimum of transmission for the

reflected or transmitted light at the exit of the front panel is provided with and/or without voltage bias on the electrode layer.

Claim 5 (previously presented): A liquid crystal information display according to claim 3, wherein the interference maximum or minimum of transmission for the reflected or transmitted light at the exit of the front panel is provided with and/or without voltage bias on the electrode layer.

Claims 6-17 (canceled)

Claim 18 (original): A liquid crystal information display according to claim 1 or 2, wherein at least one polarizer is an internal one.

Claim 19 (original): A liquid crystal information display according to claim 3, wherein at least one polarizer is an internal one.

Claim 20 (original): A liquid crystal information display according to claim 4, wherein at least one polarizer is an internal one.

Claim 21 (original): A liquid crystal information display according to claim 5, wherein at least one polarizer is an internal one.

Claims 22-33 (canceled)

Claim 34 (original): A liquid crystal information display according to claim 3, wherein at least one optically anisotropic layer is an oriented film of organic dye of the formula:

$$\{K\}(M)n,$$

where K – the dye, chemical formula of which contains ionogenic group or groups, same or different, which provide its solubility in polar solvents in order to form lyotropic liquid-crystal phase, M - the anti-ion, n – the number of anti-ions in the dye molecule, which may be a fraction when one anti-ion belongs to several molecules, and in the case when $n>1$ the anti-ions may be different.

Claim 35 (original): A liquid crystal information display according to claim 4, wherein at least one optically anisotropic layer is an oriented film of organic dye of the

formula:

$$\{K\}(M)n,$$

where K – the dye, chemical formula of which contains ionogenic group or groups, same or different, which provide its solubility in polar solvents in order to form lyotropic liquid-crystal phase, M - the anti-ion, n – the number of anti-ions in the dye molecule, which may be a fraction when one anti-ion belongs to several molecules, and in the case when $n>1$ the anti-ions may be different.

Claim 36 (original): A liquid crystal information display according to claim 5, wherein at least one optically anisotropic layer is an oriented film of organic dye of the formula:

$$\{K\}(M)n,$$

where K – the dye, chemical formula of which contains ionogenic group or groups, same or different, which provide its solubility in polar solvents in order to form lyotropic liquid-crystal phase, M - the anti-ion, n – the number of anti-ions in the dye molecule, which may be a fraction when one anti-ion belongs to several molecules, and in the case when $n>1$ the anti-ions may be different.

Claims 37-48 (canceled)

Claim 49 (original): A liquid crystal information display according to claim 18, wherein at least one optically anisotropic layer is an oriented film of organic dye of the formula:

$$\{K\}(M)n,$$

where K – the dye, chemical formula of which contains ionogenic group or groups, same or different, which provide its solubility in polar solvents in order to form lyotropic liquid-crystal phase, M - the anti-ion, n – the number of anti-ions in the dye molecule, which may be a fraction when one anti-ion belongs to several molecules, and in the case when $n>1$ the anti-ions may be different.

Claim 50 (original): A liquid crystal information display according to claim 19, wherein at least one optically anisotropic layer is an oriented film of organic dye of the formula:

{K}(M)n,

where K – the dye, chemical formula of which contains ionogenic group or groups, same or different, which provide its solubility in polar solvents in order to form lyotropic liquid-crystal phase, M - the anti-ion, n – the number of anti-ions in the dye molecule, which may be a fraction when one anti-ion belongs to several molecules, and in the case when $n>1$ the anti-ions may be different.

Claim 51 (original): A liquid crystal information display according to claim 3 wherein at least one optically anisotropic layer is a crystalline film.